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Sequence Listing was accepted.

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Reviewer: Saleem, Syed (ASRC)

Timestamp: [year=2010; month=6; day=28; hr=10; min=55; sec=34; ms=992; ]

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Application No: 10595909 Version No: 1.0

**Input Set:****Output Set:**

**Started:** 2010-06-18 21:49:07.495  
**Finished:** 2010-06-18 21:49:13.399  
**Elapsed:** 0 hr(s) 0 min(s) 5 sec(s) 904 ms  
**Total Warnings:** 123  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 123  
**Actual SeqID Count:** 123

Error code	Error Description
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W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)

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**Output Set:**

**Started:** 2010-06-18 21:49:07.495  
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Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> ACE Biosciences A/S

<120> Campylobacter polypeptides

<130> 0088562-015US0

<140> 10595909

<141> 2010-06-18

<150> PCT/DK2004/000803

<151> 2004-11-19

<150> DK PA 2003 01726

<151> 2003-11-21

<150> US 06/524,617

<151> 2003-11-25

<160> 123

<170> PatentIn version 3.5

<210> 1

<211> 445

<212> PRT

<213> Campylobacter jejuni (SEQ ID NO:1 - Cj0092)

<400> 1

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1				5					10					15	

Tyr	Ala	Gln	Gly	Ser	Gln	Pro	Val	Glu	Ile	Thr	Gln	Gln	Asp	Ile	Asn
			20					25					30		

Thr	Gln	Asn	Glu	Met	Ser	Asp	Ala	Ser	Thr	Lys	Asp	Ile	Thr	Pro	Lys
		35					40					45			

Ser	Ile	Glu	Asp	Phe	Phe	Glu	Glu	Phe	Ala	Asp	Asn	Phe	Gly	Ile	Glu
	50					55					60				

Tyr	Gly	Ile	Thr	Lys	Asp	Gly	Lys	Thr	Phe	Tyr	Thr	Gly	Lys	Ser	Thr
65					70				75						80

Val	Ala	Val	Asn	Asp	Thr	Asp	Pro	Gln	Phe	Ala	Gln	Ala	Leu	Gln	Asn
			85					90						95	

Ala	Tyr	Gln	Lys	Ala	Met	Leu	Asn	Leu	Gln	Ser	Glu	Phe	Ile	Arg	Asp
			100					105						110	

Ala Phe Gly Arg Ile Ala Thr Ser Lys Ile Gln Asn Tyr Glu Ala Asp  
115 120 125

Asn Ser Thr Asn Ala Lys Glu Phe Asp Glu Leu Pro Lys Gly Asp Lys  
130 135 140

Val Asp Gln Ile Leu Asn Lys Leu Thr Gln Leu Ala Gly Ala Gln Leu  
145 150 155 160

Asp Lys Ala Leu Lys Asp Leu Gly Ile Asp Thr Asn Ser Leu Ser Glu  
165 170 175

Asp Arg Lys Lys Thr Leu Leu Lys Gln Glu Phe Leu Asn Lys Thr Met  
180 185 190

Thr Asn Ala Ile Gly Ser Met Ser Gly Leu Val Pro Val Gln Thr Ile  
195 200 205

Val Thr Gln Arg Arg Gly Glu Tyr Asp Val Gly Val Val Ala Val Ile  
210 215 220

Ser Asn Lys Thr Arg Gln Leu Ala Lys Asp Met Ala Leu Ala Arg Gln  
225 230 235 240

Ser Ala Ile Lys Gly Lys Gly Lys Ala Ile Ser Glu Tyr Leu Pro Lys  
245 250 255

Asp Thr Lys Gly Phe Leu Asn Glu Tyr Gly Ile Arg Leu Val Tyr Asp  
260 265 270

Glu Asn Gly Ala Pro Ile Ile Leu Ser Tyr Gly Asn Trp Gly Tyr Val  
275 280 285

Ala Asp Pro Ser Asn Ala Lys Lys Thr Asn Ile Leu Glu Asp Arg Ala  
290 295 300

Lys Glu Thr Ala Leu Thr Met Ala Asp Ala Ala Ile Ile Glu Phe Ile  
305 310 315 320

Asn Thr Asn Leu Ser Leu Lys Asp Glu Arg Thr Thr Gly Asp Thr Tyr  
325 330 335

Glu Glu Ile Ile Lys Gln Ser Ile Asn Val Asn Asp Ser Ser Thr Gln  
340 345 350

Glu Gln Thr Gln Asn Ile Thr Asn Ile Ile Asp Lys Val Asn Ser Lys  
355 360 365

Ile Lys Ala Ser Ala Ser Gly Lys Ile Arg Gly Ile Arg Thr Leu Lys  
370 375 380

Lys Trp Ser Tyr Thr Ser Glu Asn Gly Ile Glu His Val Gly Ala Val  
385 390 395 400

Arg Phe Tyr Ser Tyr Glu Asn Leu Ala Asn Thr Asn Glu Ala Leu Asn  
405 410 415

Ser Lys Ser Asn Ala Thr Lys Asn Glu Ala Lys Lys Ser Ser Ser Ile  
420 425 430

Gln Arg Ser Ser Asn Val Val Asn Ser Met Asp Asp Phe  
435 440 445

<210> 2

<211> 412

<212> PRT

<213> Campylobacter jejuni (SEQ ID NO:2 - Cj0005)

<400> 2

Met Lys Gln Asn Asp Gln Lys Glu Asn Arg Arg Asp Phe Leu Lys Asn  
1 5 10 15

Ile Gly Leu Gly Leu Phe Gly Ile Ser Val Leu Ser Asn Phe Ser Phe  
20 25 30

Glu Asn Phe Leu Gly Ser Lys Ala Leu Ala Lys Glu Leu Pro Asp Phe  
35 40 45

Lys Ile Glu Gly Lys Lys Asp Leu Ile Tyr His Gly Glu Lys Pro Leu  
50 55 60

Thr Ala Glu Thr Glu Ile Tyr Ala Leu Asp Ser Asp Phe Thr Lys Pro  
65 70 75 80

Glu Asn Phe Phe Val Arg Asn Asn Gly Leu Pro Pro Ser Leu Glu Thr

85

90

95

Ile Lys Glu Arg Leu His Lys Gly Trp Thr Leu Glu Ile Asp Gly Glu  
 100 105 110

Ser Ile Ile Asn Lys Lys Ser Tyr Thr Ile Glu Asp Leu Lys Lys Lys  
 115 120 125

Phe Lys Thr Tyr Thr Tyr Ala Leu Thr Val Glu Cys Gly Gly Asn Gly  
 130 135 140

Arg Ser Glu Val Ile Pro Ser Thr Lys Gly Thr Gln Trp Gly Tyr Gly  
 145 150 155 160

Ala Val Ala Cys Gly Arg Trp Thr Gly Val Arg Leu Lys Asp Ile Leu  
 165 170 175

Lys Asp Cys Gly Ile Lys Asn Asp Ala Val Tyr Ile Gly Tyr Tyr Gly  
 180 185 190

Ile Asp Thr Lys Leu Asn Gly Glu Glu Thr Ser Pro Ile Ser Arg Gly  
 195 200 205

Val Pro Ile Ser Lys Ala Leu Gln Asp Glu Thr Leu Ile Ala Trp Ala  
 210 215 220

Tyr Glu Gly Lys Asp Ile Pro Leu Val Asn Gly Tyr Pro Leu Arg Leu  
 225 230 235 240

Val Cys Gly Gly Tyr Pro Ala Ser Thr Ser Gly Lys Trp Leu Tyr Lys  
 245 250 255

Ile Ser Val Arg Asn Lys Ile His Asp Gly Glu Lys Met Glu Gly Ser  
 260 265 270

Tyr Lys Val Pro Val Asn Pro Val Lys Pro Gly Asp Phe Asn Tyr Lys  
 275 280 285

Gly Glu Met Lys Ile Ile Glu Ser Met Pro Ile Arg Ser Val Ile Thr  
 290 295 300

Asn Ile Lys Asn Gly Ser Glu Ile Lys Ala Asn Lys Lys Phe Glu Val  
 305 310 315 320

Arg Gly Lys Ala Trp Ala Gly Glu Leu Glu Val Ser Glu Val Tyr Val  
325 330 335

Ser Asn Asp Tyr Gly Val Thr Trp Thr Lys Ala Lys Val Glu Lys Pro  
340 345 350

Leu Asn Arg Leu Ala Trp Gln Lys Trp Ser Ala Gln Ile Ser Ile Pro  
355 360 365

Thr Lys Gly Tyr Tyr Glu Ile Trp Ala Arg Ala Ile Asp Ser Gln Gly  
370 375 380

Asn Ser Gln Pro Met Val Leu Ala Gln Trp Asn Pro Gly Gly Tyr Ile  
385 390 395 400

Asn Asn Ala Cys His Arg Val Asn Val Tyr Gly Val  
405 410

<210> 3  
<211> 331  
<212> PRT  
<213> Campylobacter jejuni (SEQ ID NO:3 - Cj0029)

<400> 3

Met Lys Lys Ala Lys Ser Arg Ile Ala Ile Leu Gly Thr Gly Gly Thr  
1 5 10 15

Ile Ala Gly Phe Ile Asp Ser Thr Ile Ala Thr Thr Gly Tyr Ala Ala  
20 25 30

Gly Ala Ile Asp Ile Asp Val Leu Ile Lys Ala Val Pro Gln Ile Arg  
35 40 45

Asp Leu Ala Asp Ile Ser Trp Glu Gln Ile Ala Asn Ile Asp Ser Ser  
50 55 60

Asn Met Cys Asp Glu Ile Trp Leu Arg Leu Ala Lys Lys Ile Ala Lys  
65 70 75 80

Leu Phe Ala Glu Gly Ile Asp Gly Val Val Ile Thr His Gly Thr Asp  
85 90 95



Thr Met Glu Glu Thr Ala Tyr Phe Leu Asn Leu Thr Ile Lys Ser Asp  
100 105 110

Lys Pro Val Val Leu Val Gly Ala Met Arg Pro Ser Thr Ala Ile Ser  
115 120 125

Ala Asp Gly Pro Lys Asn Leu Tyr Asn Ala Val Ala Leu Val Val Asn  
130 135 140

Lys Glu Ala Lys Asn Lys Gly Val Met Val Ala Ile Asn Asp Lys Ile  
145 150 155 160

Leu Ser Ala Arg Gly Val Val Lys Thr His Ser Leu Asn Val Asp Ala  
165 170 175

Phe Ser Ser Pro Asp Phe Gly Asp Leu Gly Tyr Ile Val Asp Gly Lys  
180 185 190

Val Phe Phe Tyr Asn Asn Val Ile Lys Ala His Thr Lys Asn Ala Pro  
195 200 205

Phe Asp Val Ser Lys Leu Thr Ser Leu Pro Lys Val Asp Ile Leu Tyr  
210 215 220

Ser Tyr Ser Asn Asp Gly Ser Gly Val Ala Ala Lys Ala Leu Phe Glu  
225 230 235 240

His Gly Thr Lys Gly Ile Val Val Ala Gly Ser Gly Ala Gly Ser Ile  
245 250 255

His Lys Asn Gln Lys Asp Val Leu Lys Glu Leu Leu Lys Lys Gly Leu  
260 265 270

Lys Val Val Val Ser Ser Arg Val Val Ala Gly Cys Val Ala Val Ser  
275 280 285

Asp Ser Asp Glu Lys Leu Gly Phe Ile Ser Ala Glu Asp Leu Asn Pro  
290 295 300

Gln Lys Ala Arg Val Leu Leu Met Leu Ala Leu Thr Lys Thr Ser Asp  
305 310 315 320

Pro Lys Lys Ile Gln Glu Tyr Phe Leu Lys Tyr

&lt;210&gt; 4

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Campylobacter jejuni (SEQ ID NO:4 - Cj0037)

&lt;400&gt; 4

Met Lys Lys His Ile Leu Leu Leu Gly Leu Cys Leu Ser Leu Ser Leu  
 1 5 10 15

Ser Ala Lys Ser Val Ser Asp Tyr Lys Val Gly Glu Glu Leu Ser Asp  
 20 25 30

Lys Glu Gly Val Glu Tyr Phe Lys Glu Leu Ser Lys Arg Pro Val Gln  
 35 40 45

Glu Trp Pro Asn Lys Asn Leu Ser Ile Asn Asp Val Pro Lys Gly Lys  
 50 55 60

Gln Gly Asp Leu Ile Arg Tyr Gly Ile Glu Leu Leu Ser Lys Thr Glu  
 65 70 75 80

Ser Thr Leu Gly Pro Tyr Ser Lys Leu Lys Lys Thr Ser Asn Glu Val  
 85 90 95

Asn Cys Ile Ser Cys His Met Asp Asn Asp Gly Asn Gly Leu Pro Gly  
 100 105 110

Thr Lys Lys Tyr Val Ile Pro Phe Leu Asn Ile Leu Asn Asn Tyr Pro  
 115 120 125

Arg Leu Asp Ile Glu Thr Met Lys Ile Ile Ser Val Glu Asp Arg Ile  
 130 135 140

Arg Gly Met Gly Gly Thr Asp Ser His Arg Phe Pro Asn Asp Ser Lys  
 145 150 155 160

Glu Met Lys Ala Ile Leu Ala Tyr Phe Lys Trp Leu Lys Glu Ala Tyr  
 165 170 175

Gly Ile Lys Asp Gly Val Lys Leu Glu Gly Asp Phe Phe Ala Lys Met  
 180 185 190

Asn Phe Pro Asn Arg Pro Ala Asp Pro Val Arg Gly Lys Lys Leu Phe  
195 200 205

Glu Glu Asn Cys Val Ala Cys His Gly Glu Arg Gly Leu Gly Val Lys  
210 215 220

Asn Asp Asn Tyr Glu Gln Gly Ser Gly His Leu Tyr Pro Ser Leu Leu  
225 230 235 240

Ile Tyr Pro Asp Gly Gly His Met Ala Met Ile Pro Phe Leu Ala Arg  
245 250 255

Phe Leu Lys Ser Ala Met Pro Phe Gly Ala Ser Ala Asp Asn Pro Ile  
260 265 270

Leu Ser Asp Glu Asp Ala Leu Asp Ile Ala Ala Tyr Val Asn Thr Gly  
275 280 285

Phe Val Arg Met Pro Ile Thr Thr Thr Glu Asn Arg Ala Gly Leu Asp  
290 295 300

Thr Ala Tyr Ser Lys Ser Pro Ser Leu Lys Pro Glu Tyr Phe Ala Ser  
305 310 315 320

Pro Gln Gln Asn Leu Asp Pro Lys Glu Tyr Ile Lys Val Lys Tyr Gly  
325 330 335

Pro Trp Lys Asn Pro Asn His Phe Pro Gly Glu  
340 345

<210> 5  
<211> 400  
<212> PRT  
<213> Campylobacter jejuni (SEQ ID NO:5 - Cj0093)

<400> 5

Met Lys Ile Ile Lys Ile Leu Phe Leu Gly Leu Phe Leu Ser Leu Ser  
1 5 10 15

Leu Asn Ala Lys Val Ile Thr Thr Thr Ser Thr Lys Ser Ser Thr Gly  
20 25 30

Glu Gly Thr Gly Leu Thr Arg Glu Asp Ala Ile Asn Asn Ala Ile Ile

35

40

45

Glu Ala Ile Gly Lys Met Ser Gly Val Ser Ile Asn Ser Leu Lys Lys  
 50 55 60

Ser Asn Thr Ser Val Ser Thr Asp Asn Ser Gly Ser Asn Ile Gln Asp  
 65 70 75 80

Asn Tyr Ser Glu Gln Ile Ser Lys Ala Thr Lys Gly Arg Ala Asp Thr  
 85 90 95

Tyr Glu Ile Asn Ser Val Glu Gln Asp Ala Asn Gly Lys Tyr Thr Ala  
 100 105 110

Asn Val Thr Ile Phe Lys Thr Thr Thr Thr Lys Lys Tyr Gln Ala Pro  
 115 120 125

Gly Leu Ser Ala Asp Asn Arg Arg Ser Ile Thr Val Phe Asp Ser Thr  
 130 135 140

Pro Asp Ala Ala Lys Arg Gly Ile Gly Ser Ala Leu Gln Gln Lys Ile  
 145 150 155 160

Ile Ser Asp Leu Leu Gln Ser Arg Lys Phe Asn Val Leu Asp Arg Asp  
 165 170 175

Ser Ser Gly Tyr Tyr Glu Met Glu Lys Ala Leu Ile Lys Ser Gly Asp  
 180 185 190

Ala Ala Ser Asp Glu Val Tyr Lys Leu Lys Asn Met Leu Ala Thr Asp  
 195 200 205

Tyr Ile Leu Leu Phe Ser Ile Ser Gly Leu Glu Gly Lys Gln Lys Thr  
 210 215 220

Ser Asn Leu Thr Gly Lys Ser Lys Thr Glu Ile Glu Val Ile Val Asp  
 225 230 235 240

Tyr Arg Val Leu Leu Phe Ala Thr Arg Gln Ile Lys Phe Ser Asn Thr  
 245 250 255

Leu Ser Met Lys Val Asn Leu Lys Asp Asn Ser Leu Ser Ala Asn Glu  
 260 265 270

Thr Ala Leu Lys Gln Ile Ala Asn Arg Ile Ala Gly Asp Ile Leu Asn  
275 280 285

Ala Ile Tyr Pro Leu Lys Val Ala Ser Val Glu Asn Asn Glu Val Ile  
290 295 300

Phe Ser Gln Ser Leu Asn Gln Gly Asp Val Tyr Glu Cys Phe Ala Leu  
305 310 315 320

Gly Lys Val Ile Lys Asp Thr Tyr Thr Lys Glu Asn Thr Gly Arg Val  
325 330 335

Glu Ser Lys Thr Gly Ser Ile Glu Ile Thr Arg Thr Ser Pro Lys Phe  
340 345 350

Ser Tyr Ala Lys Ile Thr Glu Gly Ser Val Lys Val Gly Asp Ile Cys  
355 360 365

Arg Pro Leu Ser Asn Thr Gly Ser Gly Asn Gly Tyr Thr Ile Gly Arg  
370 375 380

Asp Ala Asn Tyr Gln Thr Gln Glu Gly Gly Gly Val Asn Leu Gly Phe  
385 390 395 400

<210> 6

<211> 465

<212> PRT

<213> Campylobacter jejuni (SEQ ID NO:6 - Cj0107)

<400> 6

Met Gln Gly Phe Ile Ser Gln Val Leu Gly Pro Val Val Asp Val Asp  
1 5 10 15

Phe Asn Asp Tyr Leu Pro Gln Ile Asn Glu Ala Ile Val Val Asn Phe  
20 25 30

Glu Ser Glu Gly Lys Lys His Lys Leu Val Leu Glu Val Ala Ala His  
35